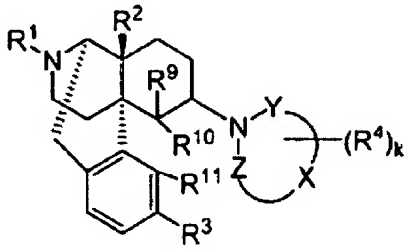
In the Claims

1. (Currently Amended) A ~~therapeutic or prophylactic agent for~~ method of treating urinary ~~frequency~~ frequency, urinary urgency or urinary incontinence, comprising ~~as an effective ingredient~~ administering a therapeutically effective amount of a morphinan derivative having a nitrogen-containing heterocyclic group of the Formula (I):



(I)

[[(]]wherein R^1 is hydrogen, C_1-C_5 alkyl, C_4-C_7 cycloalkylalkyl, C_6-C_8 cycloalkenylalkyl, C_6-C_{12} aryl, C_7-C_{13} aralkyl, C_3-C_7 alkenyl, furanylalkyl (wherein the number of carbon atoms in the alkyl moiety is 1 to 5), thienylalkyl (wherein the number of carbon atoms in the alkyl moiety is 1 to 5) or pyridylalkyl (wherein the number of carbon atoms in the alkyl moiety is 1 to 5), R^2 and R^3 independently are hydrogen, hydroxy, C_1-C_5 alkoxy, C_3-C_7 alkenyloxy, C_7-C_{13} aralkyloxy or C_1-C_5 alkanoyloxy; Y and Z independently represent valence bond or -C(=O)-; -X- represents a C_2-C_7 carbon chain (one or more of the carbon atoms therein m a y be ~~substituted~~ replaced by nitrogen, oxygen or sulfur atom(s), and the carbon chain may contain an unsaturated bond) constituting a part of the ring structure; k is an integer of 0 to 8; R^4 is(are) (a) substituent(s) in the number of k on the nitrogen-containing ring, which independently represent(s) fluorine, chlorine, bromine, iodine, nitro, hydroxy, C_1-C_5 alkyl, benzylidene, ethylidene, cyclohexylmethylidene, butylidene, phenethylidene, C_7-C_{13} cycloalkylalkyl, C_6-C_{12} aryl, C_7-C_{13} aralkyl, C_7-C_{13} aralkyloxy, C_1-C_5 alkoxy, trifluoromethyl, trifluoromethoxy, cyano, isothiocyanato, SR^6, SOR^6, SO_2R^6, $(CH_2)_pOR^6$,

$(CH_2)_pCOR^6$, $(CH_2)_pCO_2R^6$, $SO_2NR^7R^8$, $CONR^7R^8$, $(CH_2)pNR^7R^8$ or $(CH_2)pN(R^7)COR^8$, or among the R^4s in the number of k, two R^4s bound to the same carbon atom or to the same sulfur atom cooperatively represent one oxygen atom to form carbonyl or sulfoxide (with the proviso that in cases where Y and Z is a valence bond, the formed carbonyl is not bound directly to the nitrogen atom which is bound to the morphinan structure), or two R^4s bound to the same carbon atom cooperatively represent one sulfur atom to form thiocarbonyl, or four R^4s bound to the same sulfur atom cooperatively represent two oxygen atoms to form sulfone, or among the R^4s in the number of k, two R^4s bound to adjacent carbon atoms, respectively, cooperatively form benzene ~~condensed~~ fused ring, pyridine ~~condensed~~ fused ring, naphthalene ~~condensed~~ fused ring, cyclopropane fused ring, cyclobutane fused ring, cyclopentane fused ring, cyclopentene fused ring, cyclohexane fused ring, cyclohexene fused ring, cycloheptane fused ring or cycloheptene fused ring, each of said fused rings is non-substituted or substituted by 1 or more R^5s, wherein R^5(s) independently represent(s) fluorine, chlorine, bromine, iodine, nitro, hydroxy, C_1-C_5 alkyl, C_7-C_{13} aralkyl (in cases where Y and Z are simultaneously -C(=O)- or valence bonds), C_1-C_5 alkoxy, trifluoromethyl, trifluoro-methoxy, cyano, C_6-C_{12} aryl, isothiocyanato, SR^6, SOR^6, SO_2R^6, $(CH_2)_pOR^6$, $(CH_2)_pCOR^6$, $(CH_2)_pCO_2R^6$, $SO_2NR^7R^8$, $CONR^7R^8$, $(CH_2)_pNR^7R^8$ or $(CH_2)pN(R^7)COR^8$; R^9 is hydrogen, C_1-C_5 alkyl, C_1-C_5 alkenyl, C_7-C_{13} aralkyl, C_1-C_3 hydroxyalkyl, $(CH_2)pOR^6$ or $(CH_2)pCO_2R^6$; R^{10} and R^{11} are bound to form -O-, -S- or $-CH_2-$, or R^{10} is hydrogen and R^{11} is hydrogen, hydroxy, C_1-C_5 alkoxy or C_1-C_5 alkanoyloxy; p is an integer of 0 to 5; R^6 is hydrogen, C_1-C_5 alkyl, C_3-C_7 alkenyl, C_6-C_{12} aryl or C_7-C_{13} aralkyl; and R^7 and R^8 independently are hydrogen, C_1-C_5 alkyl or C_7-C_{13} aralkyl[[)]]; or a pharmaceutically acceptable acid addition salt thereof to a patient.

2. (Currently Amended) The ~~therapeutic or prophylactic agent~~ method according to claim 1, wherein in said Formula (I), only one of Y and Z is -C(=O)- and the other is valence bond.

3. (Currently Amended) The ~~therapeutic or prophylactic agent~~ method according to claim 1, wherein in said Formula (I), both Y and Z are -C(=O)-.

4. (Currently Amended) The ~~therapeutic or prophylactic agent~~ method according to claim 3, wherein in said Formula (I), R^1 is hydrogen, C_4-C_7 cycloalkylalkyl, C_6-C_8 cycloalkenylalkyl, C_6-C_{12} aryl or C_3-C_7 alkenyl; k is an integer of 2 to 8; and two R^4s bound to adjacent carbon atoms, respectively, cooperatively form benzene fused ring, pyridine fused ring, naphthalene fused ring, cyclopropane fused ring, cyclobutane fused ring, cyclopentane fused ring, cyclopentene fused ring, cyclohexane fused ring, cyclohexene fused ring, cycloheptane fused ring or cycloheptene fused ring, each of said fused rings is non-substituted or substituted by 1 or more R^5s.

5. (Currently Amended) The ~~therapeutic or prophylactic agent~~ method according to claim 3, wherein in said Formula (I), R^1 is hydrogen, cyclopropylmethyl, cyclobutylmethyl, cyclopentylmethyl, cyclohexylmethyl, allyl or prenyl; R^2 is hydrogen, hydroxy, methoxy, ethoxy, allyloxy, benzyloxy, acetoxy or propionoxy; R^3 is hydrogen, hydroxy, methoxy, ethoxy, benzyloxy, acetoxy or propionoxy; k is an integer of [[0]]2 to 6, two R^4s cooperatively form benzene fused ring which is non-substituted or substituted by 1 to 4 R^5s; R^5(s) independently is(are) fluorine, chlorine, bromine, iodine, nitro, methyl, ethyl, propyl, benzyl, hydroxy, methoxy, ethoxy, trifluoromethyl, trifluoromethoxy, cyano, phenyl, isothiocyanato, SR^6, SOR^6, SO_2R^6, $(CH_2)_pOR^6$, $(CH_2)_pCOR^6$, $(CH_2)pCO_2R^6$, $SO_2NR^7R^8$, $CONR^7R^8$, $(CH_2)pNR^7R^8$ or $(CH_2)pN(R^7)COR^8$; p is an integer of 0 to 5; R^6 is hydrogen, methyl, ethyl, propyl or phenyl; R^7 and R^8 independently are hydrogen, methyl, ethyl, propyl or benzyl; R^9 is hydrogen or methyl; R^{10} and $R^{''}$ are bound to form -O-, or R^{10} is hydrogen and R^{11} is hydrogen, hydroxy or methoxy.

6. (Currently Amended) The ~~therapeutic or prophylactic agent~~ method according to

claim 1, wherein in said Formula (I), both Y and Z are valence bonds.

7. (Currently Amended) The ~~therapeutic or prophylactic agent~~ method according to claim 6, wherein in said Formula (I), R^1 is hydrogen, C_1-C_5 alkyl, C_7-C_{13} aralkyl, furanylalkyl (wherein the number of carbon atoms in the alkyl moiety is 1 to 5), thienylalkyl (wherein the number of carbon atoms in the alkyl moiety is 1 to 5) or pyridylalkyl (wherein the number of carbon atoms in the alkyl moiety is 1 to 5); k is an integer of 2 to 8; two R^4s bound to adjacent carbon atoms, respectively, cooperatively form benzene fused ring, pyridine fused ring, naphthalene fused ring, cyclopropane fused ring, cyclobutane fused ring, cyclopentane fused ring, cyclopentene fused ring, cyclohexane fused ring, cyclohexene fused ring, cycloheptane fused ring or cycloheptene fused ring, each of said fused rings is non-substituted or substituted by 1 or more R^5s.

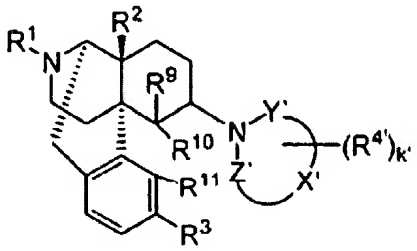
8. (Currently Amended) The ~~therapeutic or prophylactic agent~~ method according to claim 6, wherein in said Formula (I), R^1 is hydrogen, methyl, ethyl, propyl,. benzyl, phenethyl, phenylpropyl, 2-furanylmethyl, 2-furanylethyl, 2-furanylpropyl, 3-furanylmethyl, 3-furanylethyl, 3-furanylprofyl, ~~2-thiophenylmethyl~~ 2-thienylmethyl, ~~2-thiophenylethyl~~ 2-thienylethyl, ~~2-thiophenylpropyl~~ 2-thienylpropyl, ~~3-thiophenylmethyl~~ 3-thienylmethyl, ~~3-thiophenylethyl~~ 3-thienylethyl, ~~3-thiophenylpropyl~~ 3-thienylpropyl, 2-pyridynylmethyl, 2-pyridynylethyl, 2-pyridynylpropyl, 3-pyridynylmethyl, 3-pyridynylethyl, 3-pyridynylpropyl, 4-pyridynylmethyl, 4-pyridynylethyl, or 4-pyridynylpropyl; R^2 is hydrogen, hydroxy, methoxy, ethoxy, allyloxy, benzyloxy, acetoxy or propionoxy; R^3 is hydrogen, hydroxy, methoxy, ethoxy, benzyloxy, acetoxy or propionoxy; k is an integer of [[0]]2 to 6; two R^4s cooperatively form benzene fused ring which is non-substituted or substituted by 1 to 4 R^5s and other R^4(s) independently is(are) methyl, ethyl, propyl or benzyl, or two R^4s bound to the same carbon atom represent one oxygen atom to form carbonyl, R^5(s) independently is(are) fluorine, chlorine, bromine, iodine, nitro, methyl, ethyl, propyl,

benzyl, hydroxy, methoxy, ethoxy, trifluoromethyl, trifluoromethoxy, cyano, phenyl, isothiocyanato, SR^6, SOR^6, SO_2R^6, $(CH_2)_pOR^6$, $(CH_2)_pCOR^6$, $(CH_2)_pCO_2R^6$, $SO_2NR^7R^8$, $CONR^7R^8$, $(CH_2)_pNR^7R^8$ or $(CH_2)pN(R^7)COR^8$; p is an integer of 0 to 5; R^6 is hydrogen, methyl, ethyl, propyl or phenyl; R^7 and R^8 independently are hydrogen, methyl, ethyl, propyl or benzyl; R^9 is hydrogen or methyl; R^{10} and R^{11} are bound to form -O-, or R^{10} is hydrogen and R^{11} is hydrogen, hydroxy or methoxy.

9. (Cancelled)

10. (Cancelled)

11. (Currently Amended) A morphinan derivative of the Formula (II) having a nitrogen-containing heterocyclic group:



(II)

[[(]]wherein R^1, R^2, R^3, R^9, R^{10} and R^{11} ~~represent~~ are the same ~~meanings~~ as ~~described above~~ in claim 1, $R^{4'}$, X', Y', Z' and k' ~~represent~~ are the same ~~meanings~~ as ~~said~~ R^4, X, Y, Z and k in claim 1 with the proviso that in cases where Y' and Z' are simultaneously valence ~~bonds~~ bonds, sulfone must be bound directly to the nitrogen atom which is bound to a morphinan structure, ~~and X' is $-(CH_2)_4-$, $-(CH_2)_5-$ or $-(CH_2)_2-O-(CH_2)_2-$, k' must be not less than 1,~~ in cases where Y' and Z' are simultaneously -C(=O)- and X' is a carbon chain ~~comprising two carbon atoms~~ constituting ~~the~~ a part of a ring structure, k' must be not less than 1, and in particular, in cases where $(R^4)k'$ is a benzene fused ring, the benzene ring must be substituted by the R^5[[)]];

or a pharmaceutically acceptable acid addition salt thereof.

12. (Original) The morphinan derivative or the pharmaceutically acceptable acid addition salt thereof according to claim 11, wherein in said Formula (II), only one of Y' and Z' is -C(=O)- and the other is valence bond.

13. (Original) The morphinan derivative or the pharmaceutically acceptable acid addition salt thereof according to claim 11, wherein in said Formula (II), both Y' and Z' are -C(=O)-.

14. (Currently Amended) The morphinan derivative or the pharmaceutically acceptable acid addition salt thereof according to claim 13, wherein in said Formula (II), R^1 is hydrogen, [[C_4-C7]] C_4-C_7 cycloalkylalkyl, C_6-C_8 cycloalkenylalkyl, C_6-C_{12} aryl or [[C_3- C7]] C_3-C_7 alkenyl; k' is an integer of 2 to 8 and two R^4s bound to adjacent carbon atoms, respectively, cooperatively form benzene fused ring substituted by 1 or more R^5s, or cooperatively form a pyridine fused ring, naphthalene fused ring, cyclopropane fused ring, cyclobutane fused ring, cyclopentane fused ring, cyclopentene fused ring, cyclohexane fused ring, cyclohexene fused ring, cycloheptane fused ring or cycloheptene fused ring, each of said fused rings is non-substituted or substituted by 1 or more R^5s.

15. (Currently Amended) The morphinan derivative or the pharmaceutically acceptable acid addition salt thereof according to claim 13, wherein in said Formula (II), R^1 is hydrogen, cyclopropylmethyl, cyclobutylmethyl, cyclopentylmethyl, cyclohexylmethyl, allyl or prenyl; R^2 is hydrogen, hydroxy, methoxy, ethoxy, allyloxy, benzyloxy, acetoxy or propionoxy; R^3 is hydrogen, hydroxy, methoxy, ethoxy, benzyloxy, acetoxy or propionoxy; k' is an integer of [[0]]2 to 6, two R^4's cooperatively form benzene fused ring which is ~~non-substituted or~~ substituted by 1 to 4 R^5s; R^5(s) independently is(are) fluorine, chlorine, bromine, iodine, nitro, methyl, ethyl, propyl, benzyl, hydroxy, methoxy, ethoxy, trifluoromethyl, trifluoromethoxy, cyano, phenyl, isothiocvanato, SR^6,

SOR^6, SO_2R^6, $(CH_2)_pOR^6$, $(CH_2)pCOR^6$, $(CH_2)_pCO_2R^6$, $S0_2NR^7R^8$, $CONR^7R^8$, $(CH_2)_pNR^7R^8$ or $(CH_2)_pN(R^7)COR^8$; p is an integer of 0 to 5; R^6 is hydrogen, methyl, ethyl, propyl or phenyl; R^7 and R^8 independently are hydrogen, methyl, ethyl , propyl or benzyl; R^9 is hydrogen or methyl; R^{10} and R^{11} are bound to form -O-, or R^{10} is hydrogen and R^{11} is hydrogen, hydroxy or methoxy.

16. (Original) The morphinan derivative or the pharmaceutically acceptable acid addition salt thereof according to claim 11, wherein in said Formula (II), both Y' and Z' are valence bonds.

17. (Currently Amended) The morphinan derivative or the pharmaceutically acceptable acid addition salt thereof according to claim 16, wherein in said Formula (II), R^1 is hydrogen, C_1-C_5 alkyl, C_7-C_{13} aralkyl, furanylalkyl (wherein the number of carbon atoms in the alkyl moiety is 1 to 5), thienylalkyl (wherein the number of carbon atoms in the alkyl moiety is 1 to 5) or pyridylalkyl (wherein the number of carbon atoms in the alkyl moiety is 1 to 5); k' is an integer of 6 to 8; two R^4's bound to adjacent carbon atoms, respectively, cooperatively form benzene fused ring, pyridine fused ring, naphthalene fused ring, cyclopropane fused ring, cyclobutane fused ring, cyclopentane fused ring, cyclopentene fused ring, cyclohexane fused ring, cyclohexene fused ring, cycloheptane fused ring or cycloheptene fused ring, each of said fused rings is non-substituted or substituted by 1 or more R^5s.

18. (Currently Amended) The morphinan derivative or the pharmaceutically acceptable acid addition salt thereof according to claim 16, wherein in said Formula (II), R^1 is hydrogen, methyl, ethyl, propyl, benzyl, phenethyl, phenylpropyl, 2-furanylmethyl, 2-furanylethyl, 2-furanylpropyl, 3-furanylmethyl, 3-furanylethyl, 3-furanylpropyl, ~~2-thiophenylmethyl~~ 2-thienylmethyl, ~~2-thiophenylethyl~~ 2-thienylethyl, ~~2-thiophen-ylpropyl~~ 2-thienylpropyl, ~~3-thiophenylmethyl~~ 3-thienylmethyl, ~~3-thiophenylethyl~~ 3-thienylethyl, ~~3-thiophenylpropyl~~ 3-thienylpropyl, 2-

pyridynylmethyl, 2-pyridynylethyl, 2-pyridynylpropyl, 3-pyridynylmethyl, 3-pyridynylethyl, 3-pyridynylpropyl, 4-pyridynylmethyl, 4-pyridynylethyl, or 4-pyridynylpropyl; R^2 is hydrogen, hydroxy, methoxy, ethoxy, allyloxy, benzyloxy, acetoxy or propionoxy; R^3 is hydrogen, hydroxy, methoxy, ethoxy, benzyloxy, acetoxy or propionoxy; k' = 6 [[is an integer of 0 to 6]]; two R^4's cooperatively form benzene fused ring which is non-substituted or substituted by 1 to 4 R^5s ~~and other R^4'(s) independently is(are) methyl, ethyl, propyl or benzyl, or two R^4's bound to the same carbon atom represent one oxygen atom to form carbonyl~~, R^5(s) independently is(are) fluorine, chlorine, bromine, iodine, nitro, methyl, ethyl, propyl, benzyl, hydroxy, methoxy, ethoxy, trifluoromethyl, trifluoromethoxy, cyano, phenyl, isothiocyanato, SR^6, SOR^6, SO_2R^6, $(CH_2)pOR^6$, $(CH_2)pCOR^6$, $(CH_2)pCO_2R^6$, $S0_2NR^7R^8$, $CONR^7R^8$, $(CH_2)pNR^7R^8$ or $(CH_2)pN(R^7)COR^8$; p is an integer of 0 to 5; R^6 is hydrogen, methyl, ethyl, propyl or phenyl; R^7 and R^8 independently are hydrogen, methyl, ethyl, propyl or benzyl; R^9 is hydrogen or methyl; R^{10} and R^{11} are bound to form -O-, or R^{10} is hydrogen and $_R11$ is hydroxy, hydroxy or methoxy.

19. (Cancelled)

20. (Previously Presented) A pharmaceutical composition comprising the morphinan derivative or the pharmaceutically acceptable acid addition salt thereof according to claim 11.

21. (Cancelled)

22. (Cancelled)

23. (Cancelled)